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With international search report.

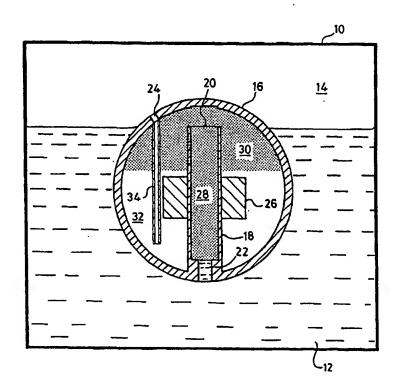
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

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(54) Title: DEVICE FOR PRODUCING A HEAD ON A BEVERAGE

(57) Abstract

A device for generating a head on a liquid in a sealed and pressurized can, when the can is opened, comprising a hollow capsule (16) which initially floats on the liquid so that apertures (22, 24) in the capsule are initially disposed one above and one below the liquid level surface, liquid being drawn up into the container through the immersed aperture by an absorbat wick (28, 30) combining with ballast means (26) eventually to cause the capsule to at least partially invert and trap gas under pressure within the capsule, ready for release when the can is opened to issue through a small aperture as a fine jet into the liquid and bubble to the liquid surface.



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Interr 1al Application No GB 94/01658

A. CLASSIFICATION OF SU MATTER B65B31/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 6 B65D B65B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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-/	
	WO,A,91 07326 (WHITBREAD & COMPANY PLC) 30 May 1991 see abstract see page 15, line 6 - line 8; figure 2 EP,A,0 227 213 (ARTHUR GUINNESS SON & COMPANY (DUBLIN) LIMITED) 1 July 1987 EP,A,0 448 200 (GUINNESS WORLDWIDE BREWING LIMITED) 25 September 1991 GB,A,2 086 834 (ABBOTT LABORATORIES) 19 May 1982 see abstract; figures 1,3 see page 3, line 100 - line 103

Patent family members are listed in annex.
To later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of mailing of the international search report 2 8, 52, 95
Authorized officer Smith, C

Form PCT/ISA/210 (second sheet) (July 1992)

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Interr nal Application No /GB 94/01658

Continuat	ion) DOCUMEN ASIDERED TO BE RELEVANT	7GB 94/01638		
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US,A,3 449 134 (LEASURE ET AL) 10 June 1969 see column 2, line 6 - line 39	26		
		·		

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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
	(Samuel V. Bear I V. Hat Micci)
This inte	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
- 0	claims 1-25 claim 26
See	e Form PCT/ISA/206 (extra sheet)
300	From PCI/ISA/200 (extra Sheet)
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

LACK OF UNITY OF INVENTION

1. Claims: 1-25

2. Claims: 26

The search division considers that the present PCT patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

Namely:

Claims 1-25 refer to a device for generating a head on a beverage in a sealed container, the sealed container incorporating the device and the method of operation of said device.

Claim 26 refers to an apparatus for canning beverages in sealed containers wherein capsules are maintained in an inert nitrogen atmosphere at superatmospheric pressure prior to being inserted into containers.

This is done to minimise the amount of oxygen present in the container after sealing and hence minimise oxidation of the beverage.

However, the apparatus of claim 26 is not limited to utilising the capsules of claim 1, but can be used with any capsule whose interior is in permanent communication with the external environment. Furthermore, the only technical feature disclosed in claim 26 is a means for maintaining an object in an inert nitrogen atmosphere at superatmospheric pressure, such a plant can have a multitude of applications.

Thus, the two inventions solve different problems without the use of any common special technical feature as required by Rule 13.1 PCT, i.e. no single general inventive concept.

	ormation on patent family memi	ocrs	P GB	94/01658
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